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# (12) United States Patent

Reeves et al.

# (54) DISPLAY STATUS OF NOTIFICATIONS ON A DUAL SCREEN DEVICE

(75) Inventors: Paul E. Reeves, Oakville (CA); Sanjiv

Sirpal, Oakville (CA); Martin Gimpl,

Helsinki (FI)

(73) Assignee: Z124, George Town (KY)

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#### (56) References Cited

#### U.S. PATENT DOCUMENTS

5,835,090 A 11/1998 Clark et al. 6,331,840 B1 12/2001 Nielson et al. (Continued)

#### FOREIGN PATENT DOCUMENTS

EP 1775925 4/2007

# OTHER PUBLICATIONS

International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053849, mailed Apr. 11, 2013 6 pages.

(Continued)

Primary Examiner — Kent Chang
Assistant Examiner — Nelson Rosario
(74) Attorney, Agent, or Firm — Sheridan Ross P.C.

## (57) ABSTRACT

Embodiments are described for displaying indications of notifications received by a multi-screen device. The notifications may relate to a number of different categories including, without limitation, phone calls, SMS messages, email, notifications from applications, battery level, and signal strength. The multi-screen device includes a unified desktop that displays indications of the notifications regardless of the state of the multi-screen device, which in embodiments includes an undocked state and a docked state, in which a peripheral screen is used to display the indications. The indications may be displayed differently depending on the state of the multi-screen device.

### 20 Claims, 22 Drawing Sheets

